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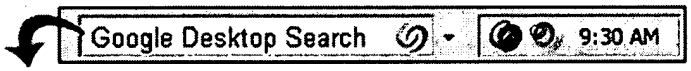


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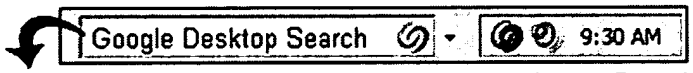
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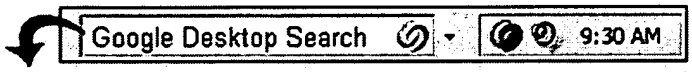
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February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1
Publisher: ACM Press

Full text available: pdf(293.73 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Topical locality in the Web

Brian D. Davison
July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press

Full text available: pdf(771.77 KB) Additional Information: full citation, abstract, references, citings, index

terms

Most web pages are linked to others with related content. This idea, combined with another that says that *text in, and possibly around, HTML anchors describe the pages to which they point*, is the foundation for a usable World-Wide Web. In this paper, we examine to what extent these ideas hold by empirically testing whether topical locality mirrors spatial locality of pages on the Web. In particular, we find that the likelihood of linked pages having similar textual content to be ...

4 The string B-tree: a new data structure for string search in external memory and its applications

Paolo Ferragina, Roberto Grossi
March 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 2
Publisher: ACM Press

Full text available: pdf(363.37 KB) Additional Information: full citation, abstract, references, citings, index terms

We introduce a new text-indexing data structure, the String B-Tree, that can be seen as a link between some traditional external-memory and string-matching data structures. In a short phrase, it is a combination of B-trees and Patricia tries for internal-node indices that is made more effective by adding extra pointers to speed up search and update operations. Consequently, the String B-Tree overcomes the theoretical limitations of inverted files, B-trees, prefix B-trees, s ...

Keywords: B-tree, Patricia trie, external-memory data structure, prefix and range search, string searching and sorting, suffix array, suffix tree, text index

5 Experiments in social data mining: The TopicShop system

Brian Amento, Loren Terveen, Will Hill, Deborah Hix, Robert Schulman
March 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 1
Publisher: ACM Press

Full text available: pdf(377.92 KB) Additional Information: full citation, abstract, references, citings, index terms

Social data mining systems enable people to share opinions and benefit from each other's experience. They do this by mining and redistributing information from computational records of social activity such as Usenet messages, system usage history, citations, or hyperlinks. Some general questions for evaluating such systems are: (1) is the extracted information valuable? and (2) do interfaces based on the information improve user task performance? We report here on *TopicShop*, a syst ...

Keywords: Cocitation analysis, collaborative filtering, computer-supported cooperative work, information visualization, social filtering, social network analysis

6 Industrial sessions: big data: The SDSS skyserver: public access to the sloan digital sky server data

Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christopher Stoughton, Jan vandenBerg
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS)

data for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the Internet. The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

7 Multimedia and visualization: Dynamic structuring of web information for access visualization

Jess Y. S. Mak, Hong Va Leong, Alvin T. S. Chan
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(765.23 KB) Additional Information: full citation, abstract, references, index terms

The Internet has led to the formation of a global information infrastructure. To explore a web site, a site map would be useful as a short cut for a user to locate for the target information in a structured and efficient manner, rather than drilling into the web site following hyperlinks, reading possibly irrelevant information. Useless information impacts a mobile web environment, where mobile clients are only connected with unreliable wireless channels of limited bandwidth. Structured web page ...

Keywords: DOM, VRML, XML, visualization, web document structure

8 Reusable software components

Trudy Levine
July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4
Publisher: ACM Press
Full text available: pdf(2.45 MB) Additional Information: full citation, index terms

9 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

10 Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan
August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(281.37 KB) Additional Information: full citation, abstract, citings, index terms

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

11 Web engineering with semantic annotation: A multilingual usage consultation tool based on internet searching: more than a search engine, less than QA

Kumiko Tanaka-Ishii, Hiroshi Nakagawa

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(453.74 KB) Additional Information: full citation, abstract, references, index terms

We present a usage consultation tool, based on Internet searching, for language learners. When a user enters a string of words for which he wants to find usages, the system sends this string as a query to a search engine and obtains search results about the string. The usages are extracted by performing statistical analysis on snippets and then fed back to the user.Unlike existing tools, this usage consultation tool is multi-lingual, so that usages can be obtained even in a language for which th ...

Keywords: question answering, text mining, usage consultation

12 Innovation, management & strategy: Virtual web services: application of software agents to personalization of web services

Jarogniew Rykowski, Wojciech Cellary

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available: pdf(292.99 KB) Additional Information: full citation, abstract, references

In this paper we propose an application of software agents to provide *Virtual Web Services*. A *Virtual Web Service* VWS is a linked collection of several real and/or virtual Web Services, and public and private agents, accessed by the user in the same way as a single real Web Service. A Virtual Web Service allows unrestricted comparison, information merging, pipelining, etc., of data coming from different sources and in different forms. *Web Services* are accessed according to t ...

Keywords: customization, personalization, software agents, web services

13 Applications: An analysis of Internet chat systems

Christian Dewes, Arne Wichmann, Anja Feldmann

October 2003 **Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement**

Publisher: ACM Press

Full text available: pdf(630.55 KB) Additional Information: full citation, references, citings, index terms

Keywords: IRC, chat, network measurements

14 LinkSelector: A Web mining approach to hyperlink selection for Web portals

Xiao Fang, Olivia R. Liu Sheng

May 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 2
Publisher: ACM Press
Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references, index terms

As the size and complexity of Web sites expands dramatically, it has become increasingly challenging to design Web sites where Web surfers can easily find the information they seek. In this article, we address the design of the portal page of a Web site, which serves as the homepage of a Web site or a default Web portal. We define an important research problem---hyperlink selection: selecting from a large set of hyperlinks in a given Web site, a limited number of hyperlinks for inclusion in a po ...

Keywords: Web mining

15 Service selection and metadata: Automating metadata generation: the simple indexing interface
Kris Cardinaels, Michael Meire, Erik Duval
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(302.39 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we focus on the development of a framework for automatic metadata generation. The first step towards this framework is the definition of an Application Programmer Interface (API), which we call the Simple Indexing Interface (SII). The second step is the definition of a framework for implementation of the SII. Both steps are presented in some detail in this paper. We also report on empirical evaluation of the metadata that the SII and supporting framework generated in a real-life c ...

Keywords: learning objects, metadata generation

16 Document searching, document annotation, and document metadata: Prefiltering techniques for efficient XML document processing
Chia-Hsin Huang, Tyng-Ruey Chuang, Hahn-Ming Lee
November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**
Publisher: ACM Press
Full text available: pdf(442.96 KB) Additional Information: full citation, abstract, references, index terms

Document Object Model (DOM) and Simple API for XML (SAX) are the two major programming models for XML document processing. Each, however, has its own efficiency limitation. DOM assumes an in-core representation of XML documents which can be problematic for large documents. SAX needs to scan over the document in a linear manner in order to locate the interesting fragments. Previously, we have used tree-to-table mapping and indexing techniques to help answer structural queries to large, or large c ...

Keywords: DOM, SAX, prefiltering, structural query, two-phased XML processing model

17 Searching the Web
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1
Publisher: ACM Press
Full text available: pdf(319.98 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We offer an overview of current Web search engine design. After introducing a generic

search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

18 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(558.34 KB) Additional Information: full citation, abstract, citings, index terms

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

19 Performance and cost tradeoffs in Web search

Nick Craswell, Francis Crimmins, David Hawking, Alistair Moffat

January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27 CRPIT '04**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(153.92 KB) Additional Information: full citation, abstract, references, citings

Web search engines crawl the web to fetch the data that they index. In this paper we re-examine that need, and evaluate the network costs associated with data acquisition, and alternative ways in which a search service might be supported. As a concrete example, we make use of the Research Finder search service provided at http://rf.panopticsearch.com, and information derived from its crawl and query logs. Based upon an analysis of the Research Finder system we introduce a hybrid arrangement, in ...

Keywords: Web crawling, World-Wide Web, information retrieval, metasearch, search engine

20 An intelligent distributed environment for active learning

August 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(116.71 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Active learning is an effective learning approach. In this article we present an intelligent agent-assisted environment for active learning to better support the student-centered, selfpaced, and highly interactive learning approach. The environment uses the students learningrelated profile such as learning style and background knowledge in selecting, organizing, and presenting learning material, and it adopts a new approach to course

content organization and delivery based on smart instruct ...

Keywords: XML, active learning, multiagent system, web-based education

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1 Experiments in social data mining: The TopicShop system

Brian Amento, Loren Terveen, Will Hill, Deborah Hix, Robert Schulman
March 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 1
Publisher: ACM Press

Full text available: pdf(377.92 KB) Additional Information: full citation, abstract, references, citings, index terms

Social data mining systems enable people to share opinions and benefit from each other's experience. They do this by mining and redistributing information from computational records of social activity such as Usenet messages, system usage history, citations, or hyperlinks. Some general questions for evaluating such systems are: (1) is the extracted information valuable? and (2) do interfaces based on the information improve user task performance? We report here on *TopicShop*, a syst ...

Keywords: Cocitation analysis, collaborative filtering, computer-supported cooperative work, information visualization, social filtering, social network analysis

2 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

3 Phoneshell: the telephone as computer terminal

Chris Schmandt
September 1993 **Proceedings of the first ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(126.39 KB) ps(242.40 KB) Additional Information: full citation, references, citings, index terms

Keywords: auditory user interface, digitized speech, interactive voice response, speech synthesis

4 Human interaction: Stuff I've seen: a system for personal information retrieval and re-use

Susan Dumais, Edward Cutrell, JJ Cadiz, Gavin Jancke, Raman Sarin, Daniel C. Robbins
July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**
Publisher: ACM Press
Full text available: pdf(372.80 KB) Additional Information: full citation, abstract, references, citings, index terms

Most information retrieval technologies are designed to facilitate information discovery. However, much knowledge work involves finding and re-using previously seen information. We describe the design and evaluation of a system, called *Stuff I've Seen (SIS)*, that facilitates information re-use. This is accomplished in two ways. First, the system provides a unified index of information that a person has seen, whether it was seen as email, web page, document, appointment, etc. Second, becau ...

Keywords: interactive information retrieval, personal information management, user interfaces, user studies

5 m-links: An infrastructure for very small internet devices

Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(680.78 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability and other functionality while sacrificing usability as Internet terminals. In order to provide access on such limited hardware we propose a small device web navigation model that is more appropriate than the desktop computer's web brows ...

Keywords: middleware, proxy, web phones, wireless, wireless web

6 Level II technical support in a distributed computing environment

Tim Leehane
September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**
Publisher: ACM Press
Full text available: Additional Information:

pdf(5.73 MB) full citation, references, index terms

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

8 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

9 An analysis of XML database solutions for the management of MPEG-7 media descriptions

Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(448.76 KB) Additional Information: full citation, abstract, references, index terms, review

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

10 Interacting in chaos

Dan R. Olsen

September 1999 **interactions**, Volume 6 Issue 5

Publisher: ACM Press

Full text available: pdf(587.03 KB) html(50.47 KB) Additional Information: full citation, references, citings, index terms

11 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini
October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4
Publisher: ACM Press

Full text available: pdf(6.94 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

12 Safely executing untrusted code: Model-carrying code: a practical approach for safe execution of untrusted applications

R. Sekar, V.N. Venkatakrishnan, Samik Basu, Sandeep Bhatkar, Daniel C. DuVarney
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Publisher: ACM Press

Full text available: pdf(301.30 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new approach called *model-carrying code* (MCC) for safe execution of untrusted code. At the heart of MCC is the idea that untrusted code comes equipped with a concise high-level model of its security-relevant behavior. This model helps bridge the gap between high-level security policies and low-level binary code, thereby enabling analyses which would otherwise be impractical. For instance, users can use a fully automated verification procedure to determine if the code ...

Keywords: mobile code security, policy enforcement, sand-boxing, security policies

13 Service selection and metadata: Automating metadata generation: the simple indexing interface

Kris Cardinaels, Michael Meire, Erik Duval
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Publisher: ACM Press

Full text available: pdf(302.39 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we focus on the development of a framework for automatic metadata generation. The first step towards this framework is the definition of an Application Programmer Interface (API), which we call the Simple Indexing Interface (SII). The second step is the definition of a framework for implementation of the SII. Both steps are presented in some detail in this paper. We also report on empirical evaluation of the metadata that the SII and supporting framework generated in a real-life c ...

Keywords: learning objects, metadata generation

14 Bridging the physical and the digital: Where the wild things work: capturing shared physical design workspaces

Wendy Ju, Arna Ionescu, Lawrence Neeley, Terry Winograd
November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**
Publisher: ACM Press
Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, index terms

We have built and tested WorkspaceNavigator, which supports knowledge capture and reuse for teams engaged in unstructured, dispersed, and prolonged collaborative design activity in a dedicated physical workspace. It provides a coherent unified interface for post-facto retrieval of multiple streams of data from the work environment, including overview snapshots of the workspace, screenshots of in-space computers, whiteboard images, and digital photos of physical objects. This paper describes t ...

Keywords: collaborative design, knowledge capture/reuse, memory augmentation, physical environments, workspaces

15 An architecture for WWW-based hypercode environments
Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang
May 1997 **Proceedings of the 19th international conference on Software engineering**
Publisher: ACM Press
Full text available: pdf(1.84 MB) Additional Information: full citation, references, citings, index terms

16 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems
M. L. Kherfi, D. Ziou, A. Bernardi
March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1
Publisher: ACM Press
Full text available: pdf(294.13 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

17 Technologies for repository interoperation and access control
Shirley Browne, Jack Dongarra, Jeff Horner, Paul McMahan, Scott Wells
May 1998 **Proceedings of the third ACM conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

18 The Anti-Mac interface
Don Gentner, Jakob Nielsen
August 1996 **Communications of the ACM**, Volume 39 Issue 8
Publisher: ACM Press
Full text available: pdf(365.38 KB) Additional Information: full citation, references, citings, index terms, review

19 Strategic directions in database systems—breaking out of the box

Avi Silberschatz, Stan Zdonik
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4
Publisher: ACM Press
Full text available: pdf(222.64 KB) Additional Information: full citation, references, citings, index terms

20 Web Behavior Patterns: How knowledge workers use the web

Abigail J. Sellen, Rachel Murphy, Kate L. Shaw
April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**
Publisher: ACM Press
Full text available: pdf(425.34 KB) Additional Information: full citation, abstract, references, citings, index terms

We report on a diary study of how and why knowledge workers use the World Wide Web. By examining in detail a complete two-day set of Web activities from each of 24 people, we construct a framework with which to describe the different tasks knowledge workers undertake. By looking at the characteristics of each type of activity, we can see how certain activities are unsuited to particular kinds of technologies (e.g., mobile devices); how Web tools might be incrementally improved; and how we might ...

Keywords: World Wide Web, appliances, diary study, knowledge workers, mobile technology, taxonomy

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16 Deconstructing Commodity Storage Clusters

Haryadi S. Gunawi, Nitin Agrawal, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, Jiri Schindler

June 2005 **Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05**

Publisher: IEEE Computer Society

Full text available: pdf(269.90 KB) Additional Information: full citation, abstract

The traditional approach for characterizing complex systems is to run standard workloads and measure the resulting performance as seen by the end user. However, unique opportunities exist when characterizing a system that is itself constructed from standardized components: one can also look inside the system itself by instrumenting each of the components. In this paper, we show how intra-box instrumentation can help one understand the behavior of a large-scale storage cluster, the EMC Centera. I ...

17 The Roma personal metadata service

Edward Swierk, Emre Kiciman, Nathan C. Williams, Takashi Fukushima, Hideki Yoshida, Vince Laviano, Mary Baker

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(221.38 KB) Additional Information: full citation, abstract, references, index terms

People now have available to them a diversity of digital storage facilities, including laptops, cell phone address books, handheld devices, desktop computers and web-based storage services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date version of any document in a user's personal file space is available to him on the storage facility he is currently using. We introduce the Roma personal metadata service t ...

Keywords: data synchronization, distributed data storage, distributed databases, metadata, mobile computing, personal systems

18 A Metadata Catalog Service for Data Intensive Applications

Gurmeet Singh, Shishir Bharathi, Ann Chervenak, Ewa Deelman, Carl Kesselman, Mary Manohar, Sonal Patil, Laura Pearlman

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available: pdf(178.25 KB) Additional Information: full citation, abstract

Advances in computational, storage and network technologies as well as middle ware such as the Globus Toolkit allow scientists to expand the sophistication and scope of data-intensive applications. These applications produce and analyze terabytes and petabytes of data that are distributed in millions of files or objects. To manage these large data sets efficiently, metadata or descriptive information about the data needs to be managed. There are various types of metadata, and it is likely that a ...

19 Conceptual modeling and metadata: Grid metadata catalog service-based OGC web registry service

Peisheng Zhao, Aijun Chen, Yang Liu, Liping Di, Wenli Yang, Peichuan Li

November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**

Publisher: ACM Press

Full text available: pdf(128.43 KB) Additional Information: full citation, abstract, references, index terms

Grid is a promising e-Science infrastructure that promotes and facilitates the sharing and collaboration in the use of distributed heterogeneous resources through Virtual

Organization (VO). A critical factor to the overall utility of Grid is a scalable, flexible and robust registry mechanism. Although it provides some mechanisms to store and access metadata for publishing and discovering resources, such as MCS (Metadata Catalog Service), the Grid registry is inadequate for dealing with domain ...

Keywords: OGC, OWL, catalog, grid, information model, ontology, semantic

20 Serverless network file systems



Thomas E. Anderson, Michael D. Dahlin, Jeanna M. Neefe, David A. Patterson, Drew S. Roselli, Randolph Y. Wang
February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1
Publisher: ACM Press

Full text available: pdf(2.69 MB) Additional Information: full citation, abstract, references, citings, index terms

We propose a new paradigm for network file system design: serverless network file systems. While traditional network file systems rely on a central server machine, a serverless system utilizes workstations cooperating as peers to provide all file system services. Any machine in the system can store, cache, or control any block of data. Our approach uses this location independence, in combination with fast local area networks, to provide better performance and scalability th ...

Keywords: RAID, log cleaning, log structured, log-based striping, logging, redundant data storage, scalable performance

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1 Concurrent search structure algorithms

Dennis Shasha, Nathan Goodman
March 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 1
Publisher: ACM Press
Full text available: pdf(2.72 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A dictionary is an abstract data type supporting the actions member, insert, and delete. A search structure is a data structure used to implement a dictionary. Examples include B trees, hash structures, and unordered lists. Concurrent algorithms on search structures can achieve more parallelism than standard concurrency control methods would suggest, by exploiting the fact that many different search structure states represent one dictionary state. We present a framework for verifying such a ...

2 Searching for deadlocks while debugging concurrent haskell programs

Jan Christiansen, Frank Huch
September 2004 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN international conference on Functional programming ICFP '04**, Volume 39 Issue 9
Publisher: ACM Press
Full text available: pdf(125.75 KB) Additional Information: full citation, abstract, references, index terms

This paper presents an approach to searching for deadlocks in Concurrent Haskell programs. The search is based on a redefinition of the IO monad which allows the reversal of Concurrent Haskells concurrency primitives. Hence, it is possible to implement this search by a backtracking algorithm checking all possible schedules of the system. It is integrated in the Concurrent Haskell Debugger (CHD), and automatically searches for deadlocks in the background while debugging. The tool is easy to use a ...

Keywords: concurrent haskell, deadlock, debugging, detecting deadlocks

3 Peer-to-peer systems for prefix search

Baruch Awerbuch, Christian Scheideler
July 2003 **Proceedings of the twenty-second annual symposium on Principles of distributed computing**
Publisher: ACM Press
Full text available: pdf(944.28 KB) Additional Information: full citation, abstract, references, citings, index

terms

This paper presents a general methodology for building message-passing peer-to-peer systems capable of performing prefix search for arbitrary user-defined names. Our methodology allows to achieve even load distribution, high fault-tolerance, and low-congestion concurrent query execution. This is the, first known peer-to-peer system for prefix search with such properties. The essence of this methodology is a plug and play paradigm for designing a peer-to-peer system as a modular composition of ar ...

4 Poster papers: What's the code?: automatic classification of source code archives

Secil Ugurel, Robert Krovetz, C. Lee Giles

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available: pdf(759.11 KB) Additional Information: full citation, abstract, references, index terms

There are various source code archives on the World Wide Web. These archives are usually organized by application categories and programming languages. However, manually organizing source code repositories is not a trivial task since they grow rapidly and are very large (on the order of terabytes). We demonstrate machine learning methods for automatic classification of archived source code into eleven application topics and ten programming languages. For topical classification, we concentrate on ...

5 Locking without blocking: making lock based concurrent data structure algorithms nonblocking

John Turek, Dennis Shasha, Sundeep Prakash

July 1992 **Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, citings, index terms

Nonblocking algorithms for concurrent data structures guarantee that a data structure is always accessible. This is in contrast to blocking algorithms in which a slow or halted process can render part or all of the data structure inaccessible to other processes. This paper proposes a technique that can convert most existing lock-based blocking data structure algorithms into nonblocking algorithms with the same functionality. Our instruction-by-instruction transformation can be ap ...

6 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

7 Eraser: a dynamic data race detector for multithreaded programs

Stefan Savage, Michael Burrows, Greg Nelson, Patrick Sobalvarro, Thomas Anderson
November 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 4
Publisher: ACM Press

Full text available: pdf(136.04 KB) Additional Information: full citation, abstract, references, citings, index terms

Multithreaded programming is difficult and error prone. It is easy to make a mistake in synchronization that produces a data race, yet it can be extremely hard to locate this mistake during debugging. This article describes a new tool, called Eraser, for dynamically detecting data races in lock-based multithreaded programs. Eraser uses binary rewriting techniques to monitor every shared-monory reference and verify that consistent locking behavior is observed. We present several case studies ...

Keywords: binary code modification, multithreaded programming, race detection

8 Eraser: a dynamic data race detector for multi-threaded programs

Stefan Savage, Michael Burrows, Greg Nelson, Patrick Sobalvarro, Thomas Anderson
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(1.51 MB) Additional Information: full citation, references, citings, index terms

9 WSQ/DSQ: a practical approach for combined querying of databases and the Web

Roy Goldman, Jennifer Widom
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2
Publisher: ACM Press

Full text available: pdf(223.65 KB) Additional Information: full citation, abstract, references, citings, index terms

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web searches to enhance SQL queries over a relational database. DSQ, for *Database-Supported (Web) Queries*, uses information stored in the database to enhance and explain Web searches. This paper focuses primarily on WSQ, describing a simple, lo ...

10 Evaluating top-*k* queries over web-accessible databases

Amélie Marian, Nicolas Bruno, Luis Gravano
June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, index terms

A query to a web search engine usually consists of a list of keywords, to which the search engine responds with the best or "top" *k* pages for the query. This top-*k* query model is prevalent over multimedia collections in general, but also over plain relational data for certain applications. For example, consider a relation with information on available restaurants, including their location, price range for one diner, and overall food rating. A user who queries such a relation might ...

Keywords: Parallel query processing, query optimization, top-*k* query processing, web databases.

11 Hypercube data analysis in astronomy: optical interferometry and millisecond pulsar searches

P. Gorham, T. Prince, S. Anderson

January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

Publisher: ACM Press

Full text available: pdf(524.45 KB) Additional Information: full citation, abstract, references, citings, index terms

Astronomical data sets are beginning to live up to their name, in both their sizes and the complexity of the analysis required. Here we discuss two astronomical data analysis problems which we have begun to implement on a hypercube concurrent processor environment: The intensive image processing required in an optical interferometry project, and the large scale power spectral analysis required by a search for millisecond-period radio pulsars. In both cases the analysis proceeds largely in t ...

12 Algorithms and data structures: Concurrent cache-oblivious b-trees

Michael A. Bender, Jeremy T. Fineman, Seth Gilbert, Bradley C. Kuszmaul

July 2005 **Proceedings of the 17th annual ACM symposium on Parallelism in algorithms and architectures SPAA'05**

Publisher: ACM Press

Full text available: pdf(180.51 KB) Additional Information: full citation, abstract, references, index terms

This paper presents concurrent cache-oblivious (CO) B-trees. We extend the cache-oblivious model to a parallel or distributed setting and present three concurrent CO B-trees. Our first data structure is a concurrent lock-based exponential CO B-tree. This data structure supports insertions and non-blocking searches/successor queries. The second and third data structures are lock-based and lock-free variations, respectively, on the packed-memory CO B-tree. These data structures support range queri ...

Keywords: cache-oblivious b-tree, concurrent b-tree, exponential tree, lock free, non-blocking, packed-memory array

13 Semantic analysis in a concurrent compiler

V. Seshadri, S. Weber, D. B. Wortman, C. P. Yu, I. Small

June 1988 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1988 conference on Programming Language design and Implementation PLDI '88**, Volume 23 Issue 7

Publisher: ACM Press

Full text available: pdf(805.25 KB) Additional Information: full citation, abstract, references, citings, index terms

Traditional compilers are usually sequential programs that serially process source programs through lexical analysis, syntax analysis, semantic analysis and code generation. The availability of multiprocessor computers has made it feasible to consider alternatives to this serial compilation process. The authors are currently engaged in a project to devise ways of structuring compilers so that they can take advantage of modern multiprocessor hardware. This paper is about the most difficult a ...

14 A concurrent compiler for Modula-2+

David B. Wortman, Michael D. Junkin

July 1992 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1992 conference on Programming language design and implementation PLDI '92**, Volume 27 Issue 7

Publisher: ACM Press

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, index terms

In this paper we describe a collection of techniques for the design and implementation of concurrent compilers. We begin by describing a technique for dividing a source program into many streams so that each stream can be compiled concurrently. We discuss several compiler design issues unique to concurrent compilers including source program partitioning, symbol table management, compiler task scheduling and information flow constraints. The application of our techniques is ...

15 Database systems: achievements and opportunities

October 1991 **Communications of the ACM**, Volume 34 Issue 10

Publisher: ACM Press

Full text available: pdf(4.03 MB) Additional Information: full citation, citings, index terms

16 Session 4A: Family trees: an ordered dictionary with optimal congestion, locality, degree, and search time

Kevin C. Zatloukal, Nicholas J. A. Harvey

January 2004 **Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(314.06 KB) Additional Information: full citation, abstract, references

We consider the problem of storing an ordered dictionary data structure over a distributed set of nodes. In contrast to traditional sequential data structures, distributed data structures should ideally have low congestion. We present a novel randomized data structure, called a *family tree*, to solve this problem. A family tree has optimal expected congestion, uses only a constant amount of state per node, and supports searches and node insertion/deletion in expected $O(\log n)$...

17 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, index terms

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

18 The family of concurrent logic programming languages

Ehud Shapiro

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(9.62 MB) Additional Information: full citation, abstract, references, citings, index terms

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent

programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

19 Ada debugging and testing support environments



Richard E. Fairley
November 1980 **ACM SIGPLAN Notices , Proceeding of the ACM-SIGPLAN symposium on Ada programming language SIGPLAN '80**, Volume 15 Issue 11
Publisher: ACM Press
Full text available: pdf(975.77 KB) Additional Information: full citation, references, citings

20 Supporting semantic information retrieval in communication networks by multimedia techniques



Annelise Mark Pejtersen
March 1995 **ACM SIGIR Forum**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(795.98 KB) Additional Information: full citation, abstract, index terms

The aim of the project is to understand and describe the information needs and search behavior of a professional design team as a basis for formulation of specifications of an information system that effectively supports the access to a wide network of heterogeneous databases. This project will supplement a similar project focused on the needs of casual users in public libraries and thus serve to generalize from previous research. To limit the scope of the study to a realistic project, it will b ...

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1 Extending a relational database with deferred referential integrity checking and intelligent joins
Stephanie Cammarata, Prasadram Ramachandra, Darrell Shane
June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data SIGMOD '89**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms

Interactive use of relational database management systems (DBMS) requires a user to be knowledgeable about the semantics of the application represented in the database. In many cases, however, users are not trained in the application field and are not DBMS experts. Two categories of functionality are problematic for such users: (1) updating a database without violating integrity constraints imposed by the domain and (2) using join operations to retrieve data from more than one relation. We ...

2 IRON file systems
Vijayan Prabhakaran, Lakshmi N. Bairavasundaram, Nitin Agrawal, Haryadi S. Gunawi, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5
Publisher: ACM Press
Full text available: pdf(323.82 KB) Additional Information: full citation, abstract, references, index terms

Commodity file systems trust disks to either work or fail completely, yet modern disks exhibit more complex failure modes. We suggest a new *fail-partial failure model* for disks, which incorporates realistic localized faults such as latent sector errors and block corruption. We then develop and apply a novel *failure-policy fingerprinting* framework, to investigate how commodity file systems react to a range of more realistic disk failures. We classify their failure policies in a new ...

Keywords: IRON file systems, block corruption, disks, fail-partial failure model, fault tolerance, internal, latent sector errors, redundancy, reliability, storage

3 An introduction to data warehousing: what are the implications for the network?
Katherine Jones
February 1998 **International Journal of Network Management**, Volume 8 Issue 1

Publisher: John Wiley & Sons, Inc.
Full text available: pdf(145.35 KB) Additional Information: full citation, abstract, references, index terms

Data warehousing is an information systems environment, rather than a product. It has emerged as an essential business entity for sophisticated analysis of data. This article presents a clear overview of the implications of data warehousing for business. © 1998 John Wiley & Sons, Ltd.

4 The Panasas ActiveScale Storage Cluster - Delivering Scalable High Bandwidth Storage

Hong Tang, Aziz Gulbeden, Jingyu Zhou, William Strathearn, Tao Yang, Lingkun Chu
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: pdf(199.24 KB) Additional Information: full citation, abstract

Fundamental advances in high-level storage architectures and low-level storage-device interfaces greatly improve the performance and scalability of storage systems. Specifically, the decoupling of storage control (i.e., file system policy) from datapath operations (i.e., read, write) allows client applications to leverage the readily available bandwidth of storage devices while continuing to rely on the rich semantics of todayýs file systems. Further, the evolution of storage interfaces from blo ...

5 Microsoft TerraServer: a spatial data warehouse

Tom Barclay, Jim Gray, Don Slutz
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: pdf(410.74 KB) Additional Information: full citation, abstract, references, citings, index terms

Microsoft® TerraServer stores aerial, satellite, and topographic images of the earth in a SQL database available via the Internet. It is the world's largest online atlas, combining eight terabytes of image data from the United States Geological Survey (USGS) and SPIN-2. Internet browsers provide intuitive spatial and text interfaces to the data. Users need no special hardware, software, or knowledge to locate and browse imagery. This paper describes how terabytes of "Internet unfrie ...

Keywords: VLDB, geo-spatial, image databases, internet

6 Traffic analysis and infrastructure monitoring: Experiences with a continuous network tracing infrastructure

Alefiya Hussain, Genevieve Bartlett, Yuri Pryadkin, John Heidemann, Christos Papadopoulos, Joseph Bannister
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Mining network data MineNet '05**
Publisher: ACM Press
Full text available: pdf(309.31 KB) Additional Information: full citation, abstract, references, index terms

One of the most pressing problems in network research is the lack of long-term trace data from ISPs. The Internet carries an enormous volume and variety of data; mining this data can provide valuable insight into the design and development of new protocols and applications. Although capture cards for high-speed links exist today, actually making the network traffic *available* for analysis involves more than just getting the packets off the wire, but also handling large and variable traffic ...

Keywords: continuous trace collection, trace infrastructure

7 Industrial sessions: big data: The SDSS skyserver: public access to the sloan digital sky server data

Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christopher Stoughton, Jan vandenBerg

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) data for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the Internet. The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

8 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, index terms

9 An overview of data warehousing and OLAP technology

Surajit Chaudhuri, Umeshwar Dayal

March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(101.60 KB) Additional Information: full citation, abstract, citings, index terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional on-line transaction processing applications. This paper provides an overview ...

10 Database research: achievements and opportunities into the 1st century

Avi Silberschatz, Mike Stonebraker, Jeff Ullman

March 1996 **ACM SIGMOD Record**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, citings

11 Soft updates: a solution to the metadata update problem in file systems

Gregory R. Ganger, Marshall Kirk McKusick, Craig A. N. Soules, Yale N. Patt

May 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(147.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Metadata updates, such as file creation and block allocation, have consistently been

identified as a source of performance, integrity, security, and availability problems for file systems. Soft updates is an implementation technique for low-cost sequencing of fine-grained updates to write-back cache blocks. Using soft updates to track and enforce metadata update dependencies, a file system can safely use delayed writes for almost all file operations. This article describes soft ...

12 Dynamic Metadata Management for Petabyte-Scale File Systems
Sage A. Weil, Kristal T. Pollack, Scott A. Brandt, Ethan L. Miller
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: pdf(175.04 KB) Additional Information: full citation, abstract

In petabyte-scale distributed file systems that decouple read and write from metadata operations, behavior of the metadata server cluster will be critical to overall system performance and scalability. We present a dynamic subtree partitioning and adaptive metadata management system designed to efficiently manage hierarchical metadata workloads that evolve over time. We examine the relative merits of our approach in the context of traditional workload partitioning strategies, and demonstrate the ...

13 Research problems in data warehousing
Jennifer Widom
December 1995 **Proceedings of the fourth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(673.01 KB) Additional Information: full citation, references, citings, index terms

14 Reading file metadata with extract and libextractor
Christian Grothoff
June 2005 **Linux Journal**, Volume 2005 Issue 134
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(14.86 KB) Additional Information: full citation, abstract, index terms

Where are the 400x200 PNG images I worked on in March? This system offers the answer.

15 Educating software engineering students to manage risk
Barry Boehm, Daniel Port
July 2001 **Proceedings of the 23rd International Conference on Software Engineering**
Publisher: IEEE Computer Society
Full text available: pdf(110.12 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

In 1996, USC switched its core two-semester software engineering course from a hypothetical-project, homework-and-exam course based on the Bloom taxonomy of educational objectives (knowledge, comprehension, application, analysis, synthesis, evaluation). The revised course is a real-client team-project course based on the CRESST model of learning objectives (content understanding, problem solving, collaboration, communication, and self-regulation). We used the CRESST cognitive demands analysis ...

Keywords: process models, product models, project courses, property models, risk management, software engineering education, success models

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